

DAMAGE ASSESSMENT AND EMERGENCY STATUS REPORT # 2

Tuesday, June 10, 2008

SITUATION OVERVIEW: A series of damaging thunderstorms occurred in waves across central and southern Lower Michigan beginning on Friday, June 6, continuing through the weekend on June 7 and 8, **with rainfall finally ending early Tuesday, June 10, 2008.** To date, the county and/or municipal emergency management programs that have reported storm damage and/or impacts via the statewide "E Team" information system include:

- Allegan County
- Arenac County
- Barry County
- Clare County
- Clinton County
- Delta Township (Eaton County)
- City of Detroit
- Eaton County
- Genesee County
- Gladwin County
- City of Lansing
- Missaukee County
- Monroe County
- Osceola County
- Ottawa County
- Saginaw County
- Washtenaw County
- Wayne County

In addition, various reports (media and/or direct contact with local officials) indicate that the following jurisdictions may have incurred some level of damage or impact from these storms; however, they have not yet officially reported this information in the E Team system:

- Livingston County
- Macomb County
- Oakland County
- St. Clair County

National Weather Service reported that additional damaging storms could occur later in the afternoon and evening of Monday, June 9, as another storm system approached the state from the southwest. Any additional damage from that event will also be evaluated and reported.

Local "State of Emergency" Declared under 1976 PA 390, as amended:

- Eaton County on June 8, 2008.
- City of Lansing on June 8, 2008.
- Delta Township on June 9, 2008.
- Ottawa County on June 9, 2008.

Requests by Local Jurisdiction for a Governor's Emergency / Disaster Declaration:

- Delta Township on June 9, 2008.

DAMAGE / IMPACT SUMMARIES FOR REPORTING JURISDICTIONS*:

***Note: these summaries have been copied from the actual E Team Incident or Jurisdiction Situation Reports filed by the respective jurisdictions. Some editing may have occurred to clarify the information or remove extraneous information.**

Allegan County:

Allegan County has received 3-5 inches of rain within a 6-hour period. This has caused a number of culverts and public drains to wash away. The road commission has provided an estimate of damages. Known damages as of 11:00 AM and estimate of costs: 1) 2700 block of Lakeshore Dr. – Culvert replacement \$250,000. 2) 57th St. south of 136th Ave. – Culvert replacement \$90,000. 3) Repairs along Lakeshore Dr. where water went over the road and eroded the west side of the road at several locations: \$100,000. General small culvert washouts and shoulder washouts throughout the county will cost an estimated \$250,000 to repair, replace and repave in some locations. Total potential cost of damage repair is \$690,000 at this time. Lakeshore roadway has been washed away, two individuals were killed after driving over a washed out roadway, falling 40 feet. Twenty-five (25) residents have been evacuated from the area due to the shoreline becoming unstable and broken gas lines.

Arenac County:

Thunderstorms moved through Arenac County at approximately 5:00 PM on Friday June 6, 2008. Reports have come in of barns, farm outbuildings and residential structures being damaged. Heaviest damage reported at this time was a roof lifted from a large barn (approx 40' x 100') which landed on a garage roof and then continued onto the roof of the attached residential structure.

Barry County:

Recovering from high winds and rain from Sunday's (June 8) storm which caused widespread electrical power outages, localized flooding, and restricted passage due to downed trees affecting roadways. The Pennock Hospital lost power around 1500 Hrs on Sunday, and is expected to have power restored by 1500 today (Monday). Roadway closures are listed for Thornapple Township at 108th St. between Patterson and Knoffke Drive. In Rutland Township, the road is closed at Tanner Lake Road between Yeckley and Quimby. In Hastings Township, Center Road is closed between Mathison and Charlton Park. In Castleton, road closures include Greggs Crossing, Martin Road between Center Road and E. State Road, as well as Martin Road between E. State Road and Bayne Road. Carlton Township's Jordan Road is closed at Lawhead Lake. The Thornapple River is forecast to crest tomorrow (Tuesday June 10th) at or about noon with a level of 8.6 feet -- which is approximately .6 feet above the current level (Monday @ 1430). The 911 Dispatch Center was without 7-digit in/outbound telephone capability from about 1700 HRS on Sunday (8th) until approximately 1400 today (Monday the 9th); however, 911 inbound calls were in operation – and normal dispatch of services continued.

Clare County:

Storm passed through Clare County beginning at about 1420 hours on June 8. There were reports from NOAA or rotation in the storm in the Leota area on two occasions. There was a trained spotter report of a tornado touchdown in the Gray Lake area of Garfield Township. There are dozens of reports of trees and power lines down throughout the entire county. At one time, all 5 Fire Departments were out on multiple calls related to the storm. There are at least 4 reports of structural damage to buildings at the time of this report, including one blown down barn. Power is out in scattered areas throughout the county. **Most recent reports indicate that the dam at Farwell Mill Pond is overflowing and has incurred a leak from a sidewall crack. The MDEQ has been contacted to inspect.**

Clinton County:

A severe thunderstorm producing strong winds and a possible tornado came through the county at approximately 1715 hours on June 6, 2008. The storm caused tree and power line damage in several areas. Several homes were affected approximately 3 miles south of St. Johns. One home was destroyed, two homes were severely damaged and approximately 15-20 homes were affected. No injuries or fatalities have been reported at this time. Power is out in the area of the damaged homes. Consumers Energy reports 8500 customers affected. Public damage is limited to the Road Commission building on Bus. US-127. The EOC was not activated and no declaration was necessary. No assistance needed at this time.

Delta Township (Eaton County):

DELTA TOWNSHIP DECLARING A LOCAL STATE OF EMERGENCY. Hundreds of trees down; hundreds of buildings and residences damaged. One fatality reported. Requesting Governor's approval. Strong winds with reported trees and power lines down with power outages along with localized flooding. Partial activation of EOC at 10:00 AM on Sunday, June 8, 2008. Recurring storm Sunday afternoon at approximately 4:00 PM. Reopened EOC at 6:00 PM. EOC Full Activation on Monday, June 9 at 10:00 AM. Delta Township delivered both a local declaration and a request for a governor's declaration to the SEOC at 2 PM on June 9. The Township is requesting funding to assist with debris removal, road repairs, and overtime costs for emergency workers.

City of Detroit:

The City of Detroit reported that portions of the city had trees and power lines down. No local state of emergency has been declared and no state assistance has been requested.

Eaton County:

Emergency Declaration signed and attached to E Team on June 8. Due to the batch of storms, the EOC was activated on June 8. The county is experiencing multiple road closures, trees down, and power out to large areas of the county. Localized flooding is still an issue; however, the situation is improving. The hardest hit townships are Chester, Benton, and Windsor, the south part of Roxand, Delta and Oneida. I-69 is completely open after being partially closed for a time. Road closures are still in place on June 9 due to washouts and flooding. All area streams running close to bank full and there is standing water in many fields. Damage assessment activities are 90% complete. County estimates that it will take two weeks to complete repairs to damaged roadways.

Genesee County:

Argentine Township reported wind or possible tornado damage. Seven (7) houses reported damaged. Also, reports of trees and power lines down in Grand Blanc and Davison, but no other home damage reported at this time. Two (2) fatalities were discovered Monday morning in a home located in Argentine Township. Although the investigation is ongoing, the deaths were likely attributed to extremely high carbon monoxide levels within the home. There was a generator running in the basement of the home at the time of discovery.

Gladwin County:

Possible straight line wind damage in Gladwin County with the most damage in All Bright Shore area. No assistance needed at this time. Damage assessments are ongoing.

City of Lansing:

Severe storms impacted the City of Lansing beginning June 7 at approximately 2300 hours. During that time there have been hundreds of requests for emergency services, power lines down, and trees down making numerous areas of the city inaccessible. Currently there are approximately 15,000 residents that do not have power and emergency service crews are responding to calls for assistance and performing windshield damage assessment surveys. A local state of emergency was declared Sunday, June 8 in the AM by Lansing's mayor. At this time the City is currently assessing the totality of the damage and implementing a debris removal plan. As of June 9, the Board of Water and light has over 600 wire down events within the City of Lansing. There are approximately 7,100 Board of Water and Light customers remain without power as of 11:00 am. It is estimated that power will be restored to the majority of customers by the end of the week. Lansing Forestry, fire department, and volunteer tree removal groups are working on tree debris removal as of 10:30 AM. The Board of Water and Light has also called in outside contract crews to assist with power restoration.

Missaukee County:

A tornado warning was issued for Missaukee County at approximately 4:11 PM on June 6. Weather spotters were activated by the Sheriff's Department at approximately 4:15 PM. The tornado warning was cancelled at 4:59 PM. Some downed power lines and spotty power outages occurred in the Richland Township - McBain area due to high winds.

Monroe County:

Monroe County reported that portions of the county had trees and power lines down. No local state of emergency has been declared and no state assistance has been requested.

Osceola County:

After several days of intense storms, on Sunday 8th a line of severe storms caused severe damage to the areas of Hersey and Evart. Damage Assessment teams were deployed with National Weather Service representative on June 9 to develop detailed assessments of the storm damage. **NWS determined that the incident was an EF1 tornado inside an EFO straight line wind event.**

Ottawa County:

Ottawa County continues to experience flooding resulting from the recent storms. The area received an additional 1"-2" of rain on June 8 (on top of the several inches already received), along with wind damage resulting in two deaths. Southern Ottawa County is the most severely impacted, with numerous roads flooded. By the late afternoon of June 8 most road flooding had receded; however as the various water sheds attempt to handle the increased volume more residential and businesses are experiencing flood conditions.

The American Red Cross, Ottawa Chapter has opened a Service Center at their Office in Holland from 5:30 PM-10:00 PM for families needing emergency assistance with food, clothing and shelter. Most of the problems are in the Zeeland area near the intersection of Alice and 130th. There are other small pockets of damage. Most of the damage is water in basements and lower levels of homes. In the Hudsonville area a couple of homes have raw sewage backing up into basements. The county estimates there are about 40 homes with minor damage. US-31 was re-opened on June 8. The Ottawa County Road Commission is compiling a list of major road damage that should be available by early PM on the 9th. The county had several complete washouts that created health and safety concerns, with residents between the washed out area having no way in or out. Traffic accident injuries have occurred with vehicles driving into the washouts. The county has experienced 3 storm related deaths: 1) An elderly male checking the Worley Dam in Robinson Township apparently got caught while checking the dam, drowned, and was washed down stream. His body was recovered by the county dive team. 2) A vehicle traveling in Spring Lake was hit by a falling tree; the driver was killed and the passenger injured. 3) A lady in Chester Township while attempting to close a barn door was hit and killed by a falling tree at her residence.

A meeting was held with EOC staff and county officials on Monday, June 9, to review current status and gather damage assessment information (including from the Drain Commission and Road Commission). Numerous areas are on the verge of exceeding water retention and may develop more flooding. The National Weather Service continues to predict more significant rain for both Monday (June 9) and Tuesday (June 10). The Ottawa County Health Department has been notified by the Holland Board of Public Works of a sanitary sewer overflow of approximately 100,000 gallons that was released into Lake Macatawa. A No Body Contact Advisory has been issued until 11:00 AM on Tuesday, June 10. No requests for resources have been made at this time. We continue to meet our local needs with local resources. **At 3:00 PM on June 9, the County officially declared a State of Emergency. Damage assessment will be ongoing with the Equalization Department coordinating the process. Sand bags have been provided to one business and two residents in Olive and Park Townships. No additional resources are requested at this time.**

Saginaw County:

Severe weather moved through Saginaw County on Friday, June 6, 2008, and Sunday, June 8, 2008. Hundreds of trees were blown over, many power lines are down, thousands are without power, and many roads are blocked. The majority of damage is in the City of Saginaw. City crews are currently assessing damage. The County will assemble more damage assessment crews to be deployed after 1600 on June 9. Most streets are accessible. The American Red Cross has opened a shelter at St John's at 915 Federal in the City of Saginaw. The Red Cross Emergency Response Vehicle has deployed to provide food and ice to neighborhoods without

power in the City of Saginaw. There are still more than 100 power lines down in the County. Thirty-nine (39) crews are working to restore power.

Washtenaw County:

Washtenaw County reported that portions of the county had trees and power lines down. No local state of emergency has been declared and no state assistance has been requested.

Wayne County:

Wayne County reported that portions of the county had trees and power lines down. No local state of emergency has been declared and no state assistance has been requested.

ADDITIONAL INFORMATION:

Power Outages:** The following information was provided by the Michigan Department of Labor and Economic Growth (MDLEG) / Michigan Public Service Commission (MPSC) based on reports provided by Detroit Edison (DTE) and Consumers Energy (CE):

On Friday, June 6, 2008 in the afternoon two strong storm patterns with high winds and heavy lightning caused outages in a line from Kalamazoo to Saginaw. Consumers Energy (CE) experienced extensive damage to poles and cross arms, where strong straight line winds occurred. Areas of extensive damage are in Mendon and the City of Saginaw. Damage to Detroit Edison's (DTE) system was less severe (less than 30,000).

Saturday, June 7, 2008 night a second storm system again caused service interruptions to much of CE's service territory South of M- 46. Most damage was due to lightning. DTE's system was impacted to a lesser level but did go over 50,000 outages for the storm. The result of this second storm caused Consumers Energy to reposition its resources delaying restoration to the areas that were affected by Friday's storms. Great Lakes Mutual Assistance was sought and due to the storms that have been prevalent in the Mid West additional resources were minimal.

On Sunday, June 08, 2008 a severe weather front created strong straight line winds with numerous reports of damage across the Lower Peninsula from M-55 South. Many broken poles have been reported with damage to wires and cross arms. DTE received heavy damage in the Livingston, Oakland, and Macomb areas. As a result, Detroit lost service to 140,000 customers and is opening up the Storm Emergency Headquarters. Macomb and Detroit Public Safety Centers are also being opened.

Many customers will be off through end of day Wednesday on both systems. Some customers in the hardest impacted areas on the CE system will go into Thursday.

Customer Outage Summaries:

Consumers Energy:

Total for the storm system: 320,000+

Current as of Tuesday AM: 46,000+

Note: Outage numbers are much larger today than previously reported due to a problem with the telephone system utilized for reporting outages.

Crews:

CE/Contractor Line: 57

CE/Contractor forestry: 110

Great Lakes Mutual Assistance: 93

Approximately 46,000 Consumers Energy electric customers are without service due to the three separate thunderstorms that have moved across the state since Friday afternoon. Since that time, more than 320,000 customers have been affected by weather-related outages.

The approximate numbers of Consumers Energy electric customers remaining without service in and around the following areas are as follows: Adrian (560); Allegan (500); Alma (50); Battle Creek (2,700); Big Rapids (1,600); Clare (2,600); Flint (5,800); Gladwin (2,500); Grand Rapids (550); Greenville (150); Hastings (1,000); Jackson

(2,100); Jonesville (400); Kalamazoo (4,700); Lansing (9,500); Midland (900); Owosso (2,500); Saginaw (2,700); Temperance (5,800) and Zeeland (60).

Utility, line clearing and contract crews, including 70 additional crews from Indiana, Kentucky and Ohio, will continue to restore power throughout the day.

The majority of customers without power are expected to be restored on Wednesday. Customers in the hardest hit and rural areas, including Flint, Jackson, Kalamazoo, Lansing, Owosso and Saginaw, may not receive electric service until Thursday. Additional storm activity has extended restoration times. Estimates will be updated as assessment and repairs continue.

Detroit Edison:

Total for the storm system: 350,000

Current as of Monday PM: 195,000

Crews:

DTE/Contractor Line: all available

DTE/Contractor forestry: all available

Scope of Storm -- A series of storm systems which began this past Friday continues to impact our southeast Michigan service area. Our Line Crews will continue their round-the-clock restoration efforts. 150 additional linemen from Ohio, Illinois, and Indiana have been called in to assist and there may be calls for more. Detroit Edison expects to have 90% of the outages restored by late Thursday, with restoration continuing through the weekend. More than 1,200 downed wires have been reported. Please be very cautious when outdoors. Stay away from downed power lines and anything they are in contact with, especially metal fences. Treat every downed line as if it is energized.

We are experiencing phone system problems as a result of the storm. Your outage report is important to us. It helps us evaluate the true scope of outages and makes for more accurate restoration estimates. Outages may be reported online using the link on this page.

Hardest Hit Areas -- Oakland, Macomb and Wayne counties were hardest hit by the storms, but outages have been reported throughout our service area.

Restoration Progress -- 155,000 customers have been restored already and restoration work will continue through the end of the week.

From: Detroit Edison Storm Web page: <http://my.dteenergy.com/main/indexStorm.html> from this page you can link to the outage map.

****Note: this information changes frequently as repairs are made and/or conditions in the field change. Refer to each company's web site for the most current power restoration estimates.**

State Response Actions: The MSP/EMHSD has monitored the situation since the storms first began on Friday, June 6. MSP/EMHSD District Coordinators have worked closely with affected local emergency management coordinators over the past three days to assess damage and impacts, determine and coordinate appropriate response and recovery actions, and assist in obtaining additional resources where required. On Monday, June 9, the MSP/EMHSD began to compile the preliminary damage estimates developed by the affected local communities over the weekend and today. In addition, a request was made to state agencies to provide detailed synopses of any storm-related response / recovery actions they took over the weekend, or anticipate taking in the coming days to aid the affected local communities. At this point, there have been no formal requests by local officials for state assistance, other than that which has already been provided through the MSP/EMHSD or other state agencies. The affected local jurisdictions continue to collect and develop their damage and impact assessments. That process is expected to continue for the next several days.

The State Emergency Operations Center (SEOC) has not been activated as of this time but state officials continue to closely monitor the situation and offer whatever assistance they can to meet situational needs. The Michigan Department of Labor and Economic Growth (MDLEG) / Michigan Public Service Commission (MPSC) is monitoring the storm-related power outages in the affected areas and maintaining management contact with

the involved power companies. The MDOT is assessing storm-related damage / impacts to state roadways and related transportation infrastructure and clearing debris and making repairs where required. Other state agencies are also conducting incident assessments to determine what impacts, if any, the storms have had on state facilities and/or agency operations. Those assessments are expected to be completed by early tomorrow (June 10).

The MSP/EMHSD will continue to monitor the situation and coordinate recovery and public information activities. The MSP/EMHSD will also work with the Governor's Office and involved state agencies to review and evaluate requests for state assistance submitted by the affected local jurisdictions on a case-by-case basis.

Local "State of Emergency" Declared under 1976 PA 390, as amended:

- Eaton County on June 8, 2008.
- City of Lansing on June 8, 2008.
- Delta Township on June 9, 2008.
- Ottawa County on June 9, 2008.

Requests by Local Jurisdiction for a Governor's Emergency / Disaster Declaration:

- Delta Township on June 9, 2008.

Damage Summary Table (from filed E Team reports only): To be developed as more detailed damage assessment reports are submitted by the affected local jurisdictions.

Jurisdiction	Residences Destroyed	Residences – Major Damage	Residences – Minor Damage	Residences – Affected	Businesses Destroyed	Businesses – Major Damage	Businesses – Minor Damage	Businesses – Affected	Other Damage
TOTALS:									

Note: Blank spaces indicate that no damage was reported for that category.